

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior listings of claims in the application:

Listing of Claims:

1. (Currently amended) A method of creating a 3 dimensional ("3-D") computer model rendering of a plurality of rooms of an architectural structure comprising the steps of:
 - (a) Step 1: The user launches the Efection launching an computer-aided design software program adapted to received measurements from a laser measuring device and operative to create a computer model of a room on a computing device; device, such as a laptop, PC, PDA, or similar device.
 - (b) Step 2: The user clicks the "Create StandAlone Wall" button on the main Efection launching a dialog box of the software program by either (a) using the mouse, or (b) entering the designated number on the keypad of the laser measuring device; This launches the "Add Wall" dialog box.
 - (c) Step 3: The user measures the measuring a length of a wall of a room using the laser measuring device; device and
 - (d) transmitting the wall length measurement to the computing device; when the measurement is taken,
 - (e) receiving the wall length measurement by the program receives the measurement and populates the
 - (f) populating a length "length" field in the dialog box with the wall length measurement; measurement. The user advances the cursor to the next field either using the mouse, keyboard, or by entering the designated number of the next field into the keypad of the laser measuring device.
 - (g) Step 4: The user repeats the (above) procedure to measure the measuring a height of the wall using the laser measuring device;
 - (h) transmitting the wall height measurement to the computing device;
 - (i) receiving the wall height measurement by the program;
 - (j) populating a height field with the wall height measurement;

- (k) ~~Step 5: The user uses a tape measure (or similar device) to measure the~~
determining a thickness of the wall, ~~generally at a doorway, window, or other~~
~~opening where the thickness is visible. This measurement is entered~~
 - (l) ~~inputting the wall thickness measurement into the program using either the~~
~~keyboard or the keypad of the~~ by manual entry into the computing device or
by transmission by the laser measuring device and receiving by the program;
 - (m) ~~Step 6: The user clicks the "OK" button on the "Add Wall" dialog box either~~
~~using the mouse cursor or using the keypad of~~ accepting a rendering of the
wall generated by the program by manual entry into the computing device or
with the laser measuring device and thereby confirming ~~Step 7: The user~~
~~observes the computer screen to ensure that the computer generated wall~~
~~rendering has been created properly.~~ properly;
 - (n) ~~Step 8: The user then moves~~ moving around the interior of the room and
repeating selected ones of steps (a) through (m) a plurality of times for each
of a selected combination of in which he/she currently is operating. ~~As the~~
~~user encounters architectural objects (wall, window, door, stairs, etc. . . .)~~
~~he/she launches the corresponding dialog box from the main Efection dialog~~
~~box and takes measurements to populate each field in the dialog box (see~~
~~FIGS. 1-14).~~
 - (o) ~~The user repeats the above steps moving to at least one more from room to~~
~~room throughout in the architectural structure and repeating step (n) a~~
~~selected number of times until a desired portion of the entire structure has~~
~~been measured and a 3D file~~ the computer model rendering of the plurality of
rooms of the architectural structure has been created.
2. (New) The method of claim 1, wherein the plurality of rooms of an architectural structure comprises all rooms of the architectural structure and the computer model is a model of the entire structure.

3. (New) A computer system for forming a virtual model of a three-dimensional interior space, the computer system comprising:

- a logic device capable of executing instructions embodied as software, wherein the logic device includes a display component;
- a laser measuring device communicatively coupled to the logic device, wherein the laser measuring device is capable of creating measurement data by measuring a plurality of spans, and wherein the laser measuring device includes a user interface;
- a software portion configured to receive a first user input identifying at least one structural category, wherein each of the at least one structural categories determines a plurality of structural measurement fields;
- a software portion configured to receive from the laser measuring device measurement data;
- a software portion configured to uniquely map each measurement data to at least one of the plurality of structural measurement fields of the at least one structural category;
- a software portion configured to form on the display component a rendition of the identified structural category based on the measurement data mapped to the plurality of structural measurement fields;
- a software portion to receive from the user interface a second user input identifying at least one structural object, wherein the at least one structural object is associated with the identified at least one structural category, and wherein the identified at least one structural object determines a plurality of object measurement fields;
- a software portion configured to uniquely map measurement data to at least one of the plurality of object measurement fields of the at least one structural object;
- and
- a software portion configured to modify the rendition of the identified structural category based on the measurement data mapped to the plurality of object measurement fields.